	Comparisons Behaven LNEP and Table &	Table A		LHOP			Ann	nualized Cost Calcu	wistiers				1707 tolis			L10	referred filternals	Option ES		olde A (12)@2027 venion) Prigs, Centrustion Management, Circitrustion	Professed Albertative Option 82 For 65 arest obted	of annihilated LTCP	Preferred Altere
100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100	ter	Swited CIO CIO Bioles Valume Redux IMOSI + INO	Treated to CEO C	Senual Annual Pecal Enteracoc differen di editori Endudio a (NG) e/(NG)	Original Annual An OBMICHIN OR IN ITOP ISMI	tonual LTCP Acque SM Corts SM Corts SM SM SM SM SM	Land piction cods molised Bond SMI Teats	Bond To	Annualia Table A Capital Co ptomato 177 Year Self	Annualized A tend A Augustion of Corn Corn Corn Corn Corn Corn Corn Corn	Tutal Annualized Cook (Capital + SEM+ Land) Somatized LTI	Year Utfo Mile Year Optio Mile	one State Cod State Stat	Net Capital Present Cods World (SM) (Annual CEM CHIN (Mr) Alternativ	alternative Trial CCF States St. Mark	To Ensumber or ed Cost Ensu- ISMI Co	Cost Land not Aspektion a brend Total Area (SM) (Asset)	tand aquinition Const trial cost alia dadi NS	Table A.	SecPresent Copital Annual : SecPresent Code Cities Protection (Mr. (Mr.) New	nest Capital Annual send Cinda OktoColla hOsteri (Interi	Net G N Present C
	Hast project lists microery view support door differ papers, subsidiary construction, engineering (TUTS, Cools middle Design, and differ project derivationed and construction of the papers of subsidiary construction, engineering (TUTS, Cools middle Design, and differ project derivationed and project lists and project lists and and differ project lists and project												Pair the 1TD alternatives, but a jump of control and c		Receases Disorfedia Booking N	anal Season and Operations in Illey Creek CIO				Seasonal Distriction (F			
201 202 202 202 120 1 0 0 1 11 1 11 1 1	notis Contration -	- N	N/A	700 700				4700	780 1 00	700 NA 6	4 .	700 20	assumed three percent interest.		1 0.5 Romino	TROTTLY 4 Date 5 1		11 800	700 PM	2023 CND Roberthies Pacifics Test.			
	Save-dan Machine Save (Sale) (Save Save Save Save Save Save Save Save		auta.		1 0mm 1		ania er			men min s	4 81000	900 90	All costs are in Principles of 2001 delices. Probable ted Cost was used as the extender of the copied into 3. Affreyable of 20 years and as interes can be offering persons were probable enabling in a	6 1000 6 1001	0001 and 0	contail at HP- Continuation of P-CCF Reliad +			nia we	New Wegistator and Planstables County at 10°-053 + Hydroutic Reservations - September 20 custilists - Very County			
. Mile No. 2006 1270 NO. MILE NO. MILE NO. MILE NO.	Su MARINE II Francis	- 0	8/8	min min	N/A	N/A - A	N/A 10	4705	nia nia	NA I		2006 20	All codit are in Yelways 2004 distant. The conditions both when developed as YPC and the facilities precent worth codes were determined by adding the estimated PECCE by NewYord the amounted amount developed and an interference of the code of the Code of the NewYord the amounted amount developed and an interference of the distance of the 20 security of the code.	nia nia	N/A No.	None selected selected solutions			NA NA	NA SO ANTONIFORMS NA			
	Model on refinite Manager vanish Seegle, anniholisien seeggeward Seegle on See		2010	N N	1 01 1	486.4		470	200 1 11.2	** 1 10 1	1 42,397	204 20	The PK for the construction construction of an COSSA data. A Minight of Zhywa and an stream of the Street II disposed was proposed construction in Appear of Street II STR. Advantage of the Street II disposed was proposed construction in Appear of Street II STR. Advantage of the Street II disposed was proposed construction in Appear of Street II STR. Advantage of the Street II disposed was proposed construction in Appear of Street II STR. Advantage of Street II disposed was proposed construction in Appear of Street II STR. Advantage of Street II disposed was proposed construction in Appear of Street II STR. Advantage of Street II disposed was proposed construction in Appear of Street II STR. Advantage of Street II disposed was proposed construction in Appear of Street II STR. Advantage of Street II disposed was proposed construction in Appear of Street II STR. Advantage of Street II disposed was proposed construction in Appear of Street II STR. Advantage of Street II disposed was proposed construction in Appear of Street II STR. Advantage of Street II disposed was proposed construction in Appear of Street II STR. Advantage of Street II disposed was proposed construction in Appear of Street II STR. Advantage of Street II STR. Adva	1 40 1 40 1	MS storage conditude	Conduit Turner(CS) (RTI) (regolami NAssintani (r) Side Naciona Autoritati of (RTI) (regolami Croek (RTI) (regolami Croek		120 41	20 20	25-MGCCIO Stange Twee Text, last Table 8, door cast shreefly incommon to success and MSCCIO stange teamer (large share); 2011 (Suddies 10:000 and 10:000) See Address (large of large of lar	1 80 1 50 1 00		
	South of formation included of the Control of the C		male.				40. 17				4 4 4 4 4 4	****	All alls are in Challer 2004 failure. Capital colors are developed a PEC colored paint for the process. All colors are included and of the failures and supplied power. All colors are included and of the failures and supplied power. All colors are included and of the failures and supplied power. All colors are included and of the failures and supplied power.		Tank and I	It full painterson at Charging Charles Tribudial				Mastalies Comisi (Baffled) Shalkin 18 find a must find in the TSTP for Shalkin 18 (Shalkin 18 Shalkin 18 Shalk			
203 204 205 120 1 100 1 100 1 100 1	Appear to be dand further code: Continue	- 16	n/a			2.01 1	200 10	4700	2020 1 41.0	E7 1 410 1	1 113000	200 20	All casts are reported in 2005 dution. Assumed interest, one of 8 percent over a 20-year life Joseph All casts are reported in 2005 dution. Assumed interest, one of 8 percent over a 20-year life Joseph All casts are reported to Audio in 8 MISSIAN ACCORDING TO AUDIO INFO-2004 and a 5 MISSIAN ACCORDING TO AUDIO INFO-2004 AND	1 52 1 53 1		k at Outfall the data telested alternatives represent different tank a species of the ent tank a species of tank a		E11 23	200 200	IS MIS Tank at RH-OSE and 4 all servative asia	1 40 1 40 1 14 1	NO 1 40 1 40	
WILL STOR STORE & STOR	Apper take cardination cost: Castinabele Design, Costination CCC preference alternative 15(17 Mit Task at Could all the Castina According to the Commission of the Cost and Co		noin.									900 00	All casts are regulated to 2000 database, assumed interest case of 8 persent over 2 22-year life cons. for Attenuative 2 include all the continuous, facilities and opposit injuries required to both as 1 YMD text at Outfall \$400000000000000000000000000000000000		5.7 ML To 050 and 2.	ork of Curfail Roo Selected alter Kallveck September of Revendant Modern Tenne 6 86				E-MG Tank at RH-Old and G alternative and Alternative and Constant			
	Agent table contractions of the contraction and the contraction an		n/a						mm 6 44 11			W/40 NO	All Dalls are reported in 200 dallars. Assumed interest one of 5 persons over 200 years from the common than 15 to		3.5 Mil Tar Distance 1.	MA MC CUEFAI TOP Selected alternatives aggregated different tank at aggregated different tank the selected at		P10 11		E MG Tank at RH-Old and distinctative and			
	Special for a final design and special design and the SCET and and SCET and appears to a mentional design and special design an		ania.	Tan Tan	4 170 4	141 4	50 ST	A 100	1000 4 V.O.	1000 6 man 6		904 90	These cash, challed from the advances consistent as electromology prog. (Indeed, Section 2014), and the section consistent and instrument leafly, or we self-section consistent and instrument leafly, or we self-section consistent and instrument leafly and the section of the section consistent and instrument leafly and instrument grown can self-section consistent and instrument leafly and instrument grown can self-section consistent and instrument leafly and instrument grown can self-section consistent and instrument leafly and instrument grown can self-section consistent and instrument leafly and instrument grown can self-section consistent and instrument leafly and instrument grown can be advantaged as the consistent consistent and instrument leafly and instrument grown can be advantaged as the consistent consistent consistent and instrument leafly and instrument grown can be advantaged as the consistent consis	6 100 6 pp 6	FOR THE RES	ion in New Outful groupstate contact measures we outful willing in divinitial action		167 A10	50 WH	De-code Straine with the section of distriction in Table 5			
W. W	State of process and continued projects on contact and process of the control of		ania.					A Post	** 1.44			2007 Was 180	All 1005 are in his facility 2021 dallars. The conduction 1005 is were developed at his facility to 100 county 2021 dallars. The conduction 1005 is specific for	5 TO 5 ST .	Ja Milio Br	Difference in celebral alternative celebral alternative celebral alternative celebral and for EZ 200. Sand alignment opposed and a patennative and a patenna		1001 10		Tec, but talast 2 SAND SAFEEpanous and antificultum (SCOV in crystal) in latest talast 2 SAND SAFEEpanous and antificultum (SCOV in crystal) in latest (SCOV in crystal) i	5 777 5 384 5 5.0 5	TI 1 MR 5 10	A 4 TH
207 207 208 1275 1 706 1 706 4 1016 4 706 4 1016 1 706 4 1016	State. A proof description des researches des researches des researches des researches description description des researches description des researches des researches des researches description des researches	- 10	200			330 1	360 E	4700	2020 1 44.00	800 1 A40 1	1 42300	201 20 at 122	All colors are for ficking 2002 delices. "So constitution color amendment of the finish 300 del (Const) PRES, for interest instructed and of a price of an 200 year for figure the resource of located afficient delect CED production and colors are all specific to finish and only for the colors and the colors and the colors are all colors and the colors and colors and colors and colors and colors and colors are all colors and colors and colors and colors and colors and colors and colors	1 77 1 30 1	Ja Milio Br Deep Turn Control of Outfalls (c 5 S.D. Allgament	APS Expansion and one fine \$2.00. There Expans Cores Cores Cores Cores Stationary WATT: \$5.0		1001 10	340 200	Tes, but Takina to the Takina to does not blendily alignment. Sales a does not blendily alignment. 28 MICE BAPS Expansion and individualism (NOVA's in credit or backing OD and analysis of the Arman and Arma			
201 207 208 1275 5 701 5 701 5 700 5 700 5 700 5 700 5 700 5	take a purple industrial season description and control for place of [Color or coveral, or location [SE or coveral, or coveral, or coveral, or location [SE or coveral, or cov		200			230 5	MD 10	4705	2020 1 05.00	000 1 840 1	1 42,3000	2007 2004 120	All southers are for Markery 2004 of Marker 7.5 As controlled into south or manufacturing all a Mindalah in Mal CAMPA (MARKER) and CAMPA (MARKER)	1 77 1 MR J	JS MID BY Deep Turk Control of Outfalls (9 5 S.D. Allgament	RFS Expansion and one for 62 20% (Torrest Lagrang		1001 10	340 200	Tes, but Takke A does not Mindly abgument. Takke A does not Mindly abgument. Takke A does not Mindly abgument. 28 MSD RAFE Expansion and Anti-Lockies (NOAN in in credit or takke Mindle Anti-Lockies Mindle A			
277 297 298 1293 1 D22 5 792 1 1010 1 298 1 1010 5 798 3 1010 2	Table a purple description des	,	200		1 10 1	330 1	300 10	4700	200 1 44.00		1 403000	201 20412	all orders are in Michael y 2004 delites. "As Local Conformer cells are in American (a. M. Michael) and Construction." And Local Construction of the Conformer and 2 years for finish reviewers, for Journal and Conformer and		36 MG2 8/ Deep Tuni Cantriet of Outbills (H	APS Expansion and one for 82 XXV. These Cappet. MOW This are Cappet. The Cappe		1001 13 1	300 200	Tex, but balance to the balance of t			
No.	TOTY has contribute resourced by the services. TOTY from here 2000 is regarded by the revision. 2000 I Contribute the and additional program, and we said distribute the implicementation of	500 THE		780		-			TRO TRO			TRANS.	200 dillar) Volum for Penningst are for "pointed distor."	760 760		ren		n 190		non non solo			\vdash
20 70 20 100 10 10 10 10 10 10 10 10 10 10 10 1	power in a more over unaccompany pulpids, and an unaccompany pulpids and unaccompany pulpids an	100 100	100	N/A N/A	N/A	N/A	90 0	4705	190 190	780 1	-	2004	AND THE COLOR AND	>5900 N/A	NA Deltara	Mills Flat No. executed to be excited. TRD		100	700 700	100 100			H
2014 AND 2024 AZES AND	- Na Abditional Processis This converse as placeholder for Annialized workshores.	nois nois	no/a	avia avia	n/a	N/A A	M/A 22	4795	nein nein	NA I	4	2004 20 N/A	one of I sentent over a 20x ear life outs.	nia nia	n/a No	not selected selected not	n/a	ia neia	min min	No. No Address Property No.			
The contract of the contract o	menericals that were reclased of the STSP extended in mall form YCCSP to USERA detections are:	SEER AND ADDRESS OF THE	-																				

Total All Projects	Capital Cavis (SM)	CIMIX (SM)
Nurmalized Table A Capital Cods (SM)	5 141270	
Land Acquisition Cook (2238/MI)	5 490.00	
Normalized Annual OSM Caris in LTCP (SM)		
Table B Committed Existing CSD Costs (2018 Str)	5 1 111.00	
Annual Table B Committed Existing CNO OBM Cost		
(2008 SM)		\$ 22.30

Location/ Waterbody	Committed CSO Costs Start Date	Bond Years	Bond Interest Rate	Table B Committed Existing CSO Costs (2018 \$M)	Annualized Table B Committed Existing CSO Capital Costs (Normalized \$M)	Annual Table B Committed Existing CSO O&M Cost (Normalized \$M)	
Alley Creek and Little Neck Bay	2018	32	4.75%	\$ -	\$ -	\$ 0.4	
Bergen & Thurston Basins	2018	32	4.75%	\$ 12	\$ 0.74	\$ -	
Bronx River	2018	32	4.75%	\$ -	\$ -	\$ -	
Coney Island Creek	2018	32	4.75%	\$ -	\$ -	\$ -	
Flushing Bay	2018	32	4.75%	\$ -	\$ -	\$ -	
Flushing Creek	2018	32	4.75%	\$ -	\$ -	\$ 2.3	
Gowanus Canal	2018	32	4.75%	\$ -	\$ -	\$ -	
Hutchinson River	2018	32	4.75%	\$ -	\$ -	\$ -	
Jamaica Bay	2018	32	4.75%	\$ 65	\$ 3.99	\$ 1.6	
Newtown Creek	2018	32	4.75%	\$ -	\$ -	\$ -	
Open Waters	2018	32	4.75%	\$ -	\$ -	\$ -	
Paerdegat Basin	2018	32	4.75%	\$ -	\$ -	\$ 5.0	
Westchester Creek	2018	32	4.75%	\$ -	\$ -	\$ -	
Green Infrastructure Program	2018	32	4.75%	\$ 1,033	\$ 63.44	\$ 12.8	

Table A and Table B values from file titled "LTCP Cost Tables 12-20-17.pdf"

Table C values from file titled "EPA Responses - January 19-v2 (003).pdf"

Land Acquisition Costs in Table A, and all Table B Costs are assumed to be in 2018 dollars.

Table B lists committed costs for Newtown Creek as \$31M. However, since the stated project completion date is 2013, an assumption has been made that these costs have been spent and are not included.

Section	Name
1. Project Information	Current capacity of the pollution control system (MGD)
	Design capacity of the pollution control system (MGD)
	Expected excess capacity after completion of the project
	(%)
	Project groundbreaking date (MM/DD/YYYY)
	Projected date of completion (MM/DD/YYYY)
2. MPS Inputs	Capital cost of the project (\$)
	Other one-time costs:
	Description of the cost element
	Cost (\$)
	Description of the cost element
	Cost (\$)
	Description of the cost element
	Cost (\$)
	Capital costs to be paid by grants (\$)
	Type of financing (e.g. G.O. bond, revenue bond, bank loan)
	Interest rate for financing (%)
	Time period of financing (years)
	Annual O&M Costs:
	Description of the cost element
	Cost (\$)
	Description of the cost element
	Cost (\$)
	Description of the cost element
	Cost (\$)
	Description of the cost element
	Cost (\$)
	Description of the cost element
	Cost (\$)

	Wastewater Sewer Rate (\$/100 cubic feet)
	Average Household Consumption (gallons/year)
	Average Household Consumption (100 cubic feet/year)
	Average Household Average Annual Wastewater Bill
	(\$/year)
	Total annual cost of existing pollution control (\$)
	Total allitual cost of existing politition control (\$)
	Amount of existing costs paid by households (\$)
	Number of households (do not use number of hook-ups)
	Optional based on selection:
	Different percentage
	Total usage of project (e.g., MGD for wastewater
	treatment)
	Usage due to household use (MGD of household
	wastewater)
	Industrial surcharges, if any (\$ total per year)
	Median household income (from Census)
	Current CPI
	071.6
	CPI for the year of the census
4. Secondary Test Inputs	Direct net debt (\$)
, ,	Overlapping debt (\$)

	Market value of taxable property (\$)
	Bond rating (for uninsured bonds)
	Community unemployment rate (%)
	community unemployment rate (70)
	Notice of the second second (0/)
	National unemployment rate (%)
	Community median household income (not adjusted for
	inflation)
	State median household income (for same time period as
	community MHI) (\$)
	Property tax collection rate (%)
	Property tax revenues (\$)
	Troperty tax revenues (4)
	Demulation (#)
	Population (#)
Widespread Impact	Estimated change in Median Household Income (MHI)
Inputs	
	Estimated change in the unemployment rate
	Estimated change in overall net debt as a percent of full
	market value of taxable property
	Estimated change in % of households below the poverty
	line
	Impact on commercial development potential
	Impact on property values
	impact on property values

Value	Source
-	
	1000 TO 11000 TO 1000 TO 1000 TO 1100
	NYCDEP: "NYCDEP Responses to USEPA Follow
	up Questions on LTCP Costs
\$ 4,224,089,791.38	12-8-17" and updated associated Tables
General Obligation Bond	
	NYCDEP: "NYCDEP Responses to USEPA Follow
	up Questions on LTCP Costs
4.75%	12-8-17" and updated associated Tables
	NYCDEP: "NYCDEP Responses to USEPA Follow
	up Questions on LTCP Costs
32	12-8-17" and updated associated Tables
32	and appeared associated rables
	NYCDEP: "NYCDEP Responses to USEPA Follow
	up Questions on LTCP Costs
¢ 22.025.645.64	
\$ 32,835,645.61	12-8-17" and updated associated Tables

	Per EPA/NYCDEP: "The Water Board voted to
	repeal the 2.1% rate increase on 1/26/18. The
	wastewater rate will remain at \$6.06 per hcf
\$ 6.06	during FY 2018."
	"Combined Sewer Overflow Long Term Control
CF 500	Plan Financial Capability Assessment February
65,530	2016" NYC Environmental Protection
27 6000	Tetra Tech calculation
87.0009	Tetra Tetri calculation
\$ 530.86	Tetra Tech calculation
\$ 1,660,664,499.13	Tetra Tech calculation
\$ 1,660,664,499.13	Tetra Tech calculation
3,128,246	United States Census Bureau
1	
\$ 55,191	United States Census Bureau
260 564	Bureau of Labor Statistics
209.304	Duredu Of Eabor Statistics
263.722	Bureau of Labor Statistics
	"Combined Sewer Overflow Long Term Control
41,600,000,000	Plan Financial Capability Assessment February
\$	2016" NYC Environmental Protection

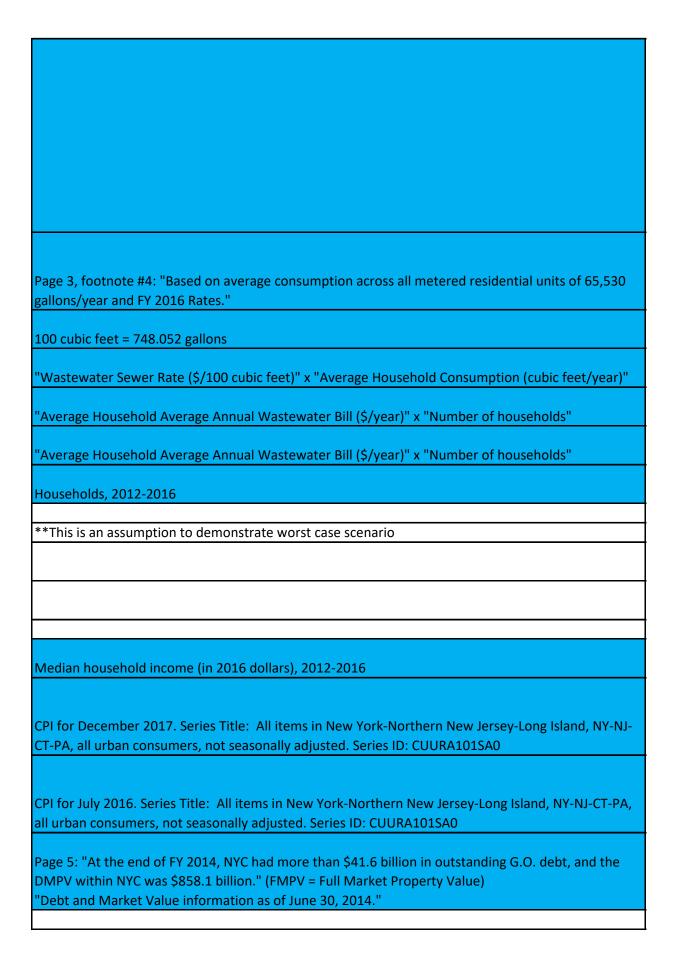
		"Combined Sewer Overflow Long Term Control
		Plan Financial Capability Assessment February
\$	858,100,000,000	2016" NYC Environmental Protection
		December 1, 2017 Moody's report on New
		York City. Footnote: "Source: New York City
		audited financial statements; Moody's
	Aa2	Investors Service"
	4.0%	Bureau of Labor Statistics
	3.9%	Bureau of Labor Statistics
\$	55,191	United States Census Bureau
\$	60,741	United States Census Bureau
Ψ	30,1 .1	
		"Combined Sower Overflow Long Torm Central
		"Combined Sewer Overflow Long Term Control
		Plan Financial Capability Assessment February
	98.5%	2016" NYC Environmental Protection
		"Combined Sewer Overflow Long Term Control
		Plan Financial Capability Assessment February
\$	21,300,000,000	2016" NYC Environmental Protection
Ÿ	21,500,000,000	2010 INTO ENVIRONMENTAL PROCESSION
	0.507.670	United States Community
	8,537,673	United States Census Bureau
L		
\vdash		

Link	

The meeting materials are available at: http://www.nyc.gov/html/nycwaterboard/pd f/minutes_and_resolutions/wb-materials-20180126.pdf And, a video recording of the meeting is available at: https://www.youtube.com/watch?v=zUwh_y meGh4&index=1&list=PLcLNnQfl92DdFRGxTs GhPDhrcGel-iZAW http://www.nyc.gov/html/dep/pdf/cso_long_ term_control_plan/2016-cso-ltcp-financialcapability-assessment.pdf https://www.census.gov/quickfacts/fact/tabl e/newyorkcitynewyork/PST045216 https://www.census.gov/quickfacts/fact/tabl e/newyorkcitynewyork/PST045216 https://data.bls.gov/timeseries/CUURA101SA 0?amp%253bdata_tool=XGtable&output_vie w=data&include_graphs=true https://data.bls.gov/timeseries/CUURA101SA 0?amp%253bdata_tool=XGtable&output_vie w=data&include_graphs=true http://www.nyc.gov/html/dep/pdf/cso long term_control_plan/2016-cso-ltcp-financialcapability-assessment.pdf

http://www.nyc.gov/html/dep/pdf/cso_long_ term_control_plan/2016-cso-ltcp-financialcapability-assessment.pdf https://comptroller.nyc.gov/wpcontent/uploads/2017/12/NYC-GO-2018CD-Moodys-Report.pdf https://www.bls.gov/regions/new-york-newjersey/summary/blssummary_newyorkcity.pd https://www.bls.gov/regions/new-york-newjersey/summary/blssummary_newyorkcity.pd https://www.census.gov/quickfacts/fact/tabl e/newyorkcitynewyork/PST045216 https://www.census.gov/quickfacts/fact/tabl e/NY/PST045216 http://www.nyc.gov/html/dep/pdf/cso_long_ term_control_plan/2016-cso-ltcp-financialcapability-assessment.pdf http://www.nyc.gov/html/dep/pdf/cso_long_ term_control_plan/2016-cso-ltcp-financialcapability-assessment.pdf https://www.census.gov/quickfacts/fact/tabl e/newyorkcitynewyork/PST045216#viewtop

Notes
All normalized (to year 2018) capital and land acquisition for preferred alternatives, and Committed Existing CSO capital costs in Table B.
Page 2: "For the purpose of this analysis we assumed 32 year bonds with 4.75% interest rate."
Dogo 2: "For the number of this analysis we assumed 22 year hands with 4.75% interest rate."
Page 2: "For the purpose of this analysis we assumed 32 year bonds with 4.75% interest rate."
Normalized (to year 2018) O&M costs from LTCPs and Committed Existing CSO O&M from Table B.



Page 6: "According to the NYC Property Tax Annual report issued for FY 2014, NYC had billed \$21.3
billion in real property taxes against an \$858.1 billion FMPV, which amounts to 2.5 percent of FMPV." (FMPV = Full Market Property Value)
Page 5: "Debt and Market Value information as of June 30, 2014."
Tage 3. Debt and Market Value mornation as of June 30, 2014.
Rating is for General Obligation Bonds
Nov. Vaul. City Unamentary and rate for Oct 2017
New York City Unemployment rate for Oct 2017
United States Unemployment rate for Oct 2017
Median household income (in 2016 dollars), 2012-2016
AA II
Median household income (in 2016 dollars), 2012-2016
See Table 3 on page 5. "Debt and Market Value information as of June 30, 2014."
Page 6: "According to the NYC Property Tax Annual report issued for FY 2014, NYC had billed \$21.3
billion in real property taxes against an \$858.1 billion FMPV, which amounts to 2.5 percent of FMPV."
(FMPV = Full Market Property Value)
Page 5: "Debt and Market Value information as of June 30, 2014."
Population estimates, July 1, 2016, (V2016)
ropulation estimates, July 1, 2010, (v2010)

Pollution Control Project Summary Information (Worksheet A in the Guidance)

Description: This worksheet identifies and documents the pollution control project(s) needed to meet water quality standards. See the Guidance documentation below for more information.

Instructions: Enter information in the cells marked with an asterisk (*) about the most cost-effective approach to meet water quality standards. The most accurate estimate of project costs may be available from the discharger's design engineers. If site-specific engineering cost estimates are not available, preliminary project cost estimates may be derived from a comparable project in the State or from the judgment of experienced water pollution control engineers.

Discharge management options to consider include:

- Pollution prevention
- End-of-pipe treatment
- Upgrades or additions to existing treatment.

Types of pollution prevention activities to consider are:

- Public education
- Change in raw materials
- · Substitution of process chemicals
- · Change in process
- Water recycling and reuse
- Pretreatment requirements.

Whatever the approach, the information should demonstrate that the proposed project is the most appropriate means of meeting water quality standards and fully document project cost estimates. If at least one of the options that meets water quality standards will not have a substantial financial impact, then do not proceed with the analysis.

Current Capacity of the Pollution Control System (MGD)	*
Design Capacity of the Pollution Control System (MGD)	*
Current Excess Capacity (%)	0.0%
Expected Excess Capacity after Completion of Project (%)	*
Projected Groundbreaking Date (MM/DD/YYYY)	*
Projected Date of Completion (MM/DD/YYYY)	*
Describe the proposed pollution control project.	
	*
Describe the other pollution control options considered, explaining why each option was rejected.	
	*

Guidance Documentation			
Component Section Page			
Verify Project Costs	2.1.a	2-3	
Documentation of Other Options Considered	2.1.a	2-3	
Annual Cost of Pollution Control (overview)	2.1 h	2-4	

Data Needed to Calculate the MPS (Worksheets B and C in the Guidance)

Description: This worksheet contains the information needed to calculate the municipal preliminary screener (MPS). The MPS is the average annualized pollution control cost per household in the affected community. The MPS helps to determine whether or not the community can clearly pay for the project without incurring any substantial impacts. See the Guidance documentation below for additional information.

Instructions: Enter the requested information into the cells marked with an asterisk (*). The affected community is the governmental jurisdiction or jurisdictions responsible for paying compliance costs. Current costs of pollution controls can also be considered in addition to the projected annual costs of the proposed pollution control project. The existing cost per household usually can be obtained from municipal records. If project costs are estimated for a prior year, these costs should be adjusted to reflect current year prices using the average annual national Consumer Price Index (CPI) inflation rate for the period available from the Bureau of Labor Statistics.

	Capital Cost				
Upgrade Type					*
Capital Cost of Project (\$)		\$4,224,089,791			*
Other One-Time Costs of Project (list below, if any):					
Description of Cost Element			Cost (\$)		
	0 *	\$0			*
	0 *	\$0			*
	0 *	\$0			*
Capital Costs to be Paid by Grants (\$)		\$0			*
Type of Financing (e.g., G.O. bond, revenue bond, ba	ank loan)	General Obligation Bond			*
Interest Rate for Financing (%)	·	4.75%			*
Time Period of Financing (years)		32			*
	g but not limited to: monitoring, inspection, permitting fees, waste of	disposal charges, repair, administi			
Descrip	tion of Cost Element		Cost (\$)		
	0 *	\$32,835,646			*
	0 *	\$0			*
	0 *	\$0			*
	0 *	\$0			
	0 **	\$0			*
Total Annual Cost of Existing Pollution Control (\$)		\$1,660,664,499			*
Amount of Existing Costs Paid by Households (\$)		\$1,660,664,499			*
Number of Households (do not use number of hook-to-	ips)	3,128,246			*
Will households provide revenues for the new pollution	on control project in the same proportion that they support existing	pollution control? (Check a. b or c	c. below.)		
a) Yes		· · · · ·	. ,	####	*
b) No, they will pay a different percentage. Enter	to right.	100.00%		####	*
	Total Usage of Project (e.g., MGD for wastewater treatment)	0		####	*
c) No, they will pay based on flow. Answer	Usage Due to Household Use (MGD of household	·			
three questions to right. (Corresponds to Worksheet C, Option A.)	wastewater)	0			*
	3. Industrial Surcharges, if any (\$ total per year)	0			*
	30803				
Median Household Income (from Census)		\$55,191			*
Current CPI		\$270 \$264			*
CPI for the year of the Census	·				*
Adjustment Factor [current CPI / CPI for the year of the		1.02			
Adjusted Median Household Income [Median House	nold Income x Adjustment Factor]	\$56,414			

Guidance Documentation		
Component	Section	Page
Evaluating Substantial Impacts (overview)	2	2-1
Capital Cost	2.1a	2-2
Annual Cost of Existing Pollution Controls	2.1b	2-3
Financing	2.1b	2-4
Annual Cost of Operations and Maintenance	2.1b	2-4
Median Household Income	2.3	2-7
Adjusting Median Household Income	2.3	2-7

Municipal Preliminary Screener (Worksheet D in the Guidance)

Description: This worksheet calculates and displays the Municipal Preliminary Screener (MPS), which is the total annual pollution control costs per household (existing annual cost per household plus the incremental cost related to the proposed project) as a percentage of median household income.

Total Annual Pollution Control Cost per Household / Adjusted Median Household Income x 100

The MPS indicates if a public entity would clearly not incur substantial economic impacts as a result of the proposed pollution control project.

Instructions: Evaluate the MPS by noting which cell is highlighted in orange and marked with an asterisk (*). If the MPS is less than 1.0 percent of median household income, the EPA does not expect the pollution control project to impose a substantial economic impact on the community; do not continue to the secondary affordability test. If the MPS is greater than 2.0 percent of median household income, then the pollution control project may result in a substantial economic impact to the community; continue to the secondary affordability test. If the MPS is between 1.0 and 2.0 percent of median household income, the community may incur a mid-range economic impact; continuing to the secondary affordability test is optional. See the Guidance documentation below for more information.

A. Calculation of the MPS		
Total Annual Pollution Control Cost per Household [Worksheet C, (11) or Worksheet C: Option A, (10)]	\$624.28	(1)
Adjusted Median Household Income	\$56,414	(2)
MPS [[(1) / (2)] x 100]	1.1%	(3)

B. Evaluation of the MPS		
Note column of cell highlighted in orange and marked with an aste	erisk (*) below:	
Little Impact	Mid-Range Impact	Large Impact
Less than 1.0%	1.0% - 2.0% *	Greater than 2.0%
Indication of no substantial economic impacts	Proceed to Secondary Test	······>

Guidance Documentation		
Component	Section	Page
MPS	2.3	2-6
Annual Pollution Control Cost per Household	2.2	2-5
Median Household Income	2.3	2-7
Census	2.3	2-7
Interpreting MPS	2.3	2-7
Determining Need for Secondary Test	2.3	2-7

Data Needed to Calculate the Secondary Test Score (Worksheet E in the Guidance)

Description: This worksheet contains the numerical data necessary to calculate the secondary test score. The secondary test score characterizes the community's current financial and socioeconomic condition. See the Guidance documentation below for additional information.

Instructions: If the MPS indicates substantial impacts may occur (i.e. it exceeds 1.0%), proceed with the secondary test by entering socioeconomic data for the affected community in the cells marked with an asterisk (*). Additional information on potential sources of data are provided in the tab named: "Potential Data Sources," and example data sources are provided in the tab named: "Example Data Sources." If one or more of the six indicators is not developed, provide an explanation as to why the indicator is not appropriate or not available.

a. Socioeconomic Data			
Data	Potential Source	Value	
Direct Net Debt (\$)	Community Financial Statements Town, County or State Assessor's Office	\$ 41,600,000,000 *	(1)
Overlapping Debt (\$)	Community Financial Statements Town, County or State Assessor's Office	\$ - *	(2)
Market Value of Taxable Property (\$)	Community Financial Statements Town, County or State Assessor's Office	\$ 858,100,000,000 *	(3)
Bond Rating (for uninsured bonds)	Standard and Poor's or Moody's	Aa2 *	(4)
Community Unemployment Rate (%)	Census of Population Regional Data Centers	4.0% *	(5)
National Unemployment Rate (%)	Bureau of Labor Statistics	3.9% *	(6)
Community Median Household Income (not adjusted for inflation)	Census of Population	\$ 55,191	(7)
State Median Household Income (for same time period as Community MHI) (\$)	Census of Population	\$ 60,741 *	(8)
Property Tax Collection Rate (%)	Community Financial Statements Town, County or State Assessor's Office	98.5% *	(9)
Property Tax Revenues (\$)	Community Financial Statements Town, County or State Assessor's Office	\$ 21,300,000,000 *	(10)

If any cell above is left blank, explain why the indicator is not appropriate or not available:

Some states have statutory limits on property tax collections and/or rates, or data on full-market value of taxable property are not available. If this is the case, select "yes" below and provide the number of people residing in the affected community.

Are there statutory limits on property tax collections and/or rates in the state, or are data on the full-market value of taxable property not available?

a) No			*
b) Yes (enter the number of residents in the affected cor	nmunity below)		*
Population (#)	Census of Population	*	(Pop.)

B. Calculated Indicators (for informational purposes only)			
1. Overall Net Debt as a Percent of Full Market Value of Taxable Property			
Overall Net Debt [(1) + (2)]	\$41,600,000,000	(11)	
Overall Net Debt as a Percent of Full Market Value of Taxable Property [[(11)/(3)] x 100]	4.85%	(12)	
1a. Overall Net Debt Per Capita (Alternative Indicator)			
Overall Net Debt Per Capita [[(11) / (Pop.)] × 100] N/A (12.7)			
2. Property Tax Revenues as a Percent of Full Market Value of Taxable Property			
Property Tax Revenues as a Percent of Full Market Value of Taxable Property [[(10)/(3)] x 100]	2.48%	(13)	

Guidance Documentation			
Component	Page		
Secondary Test (overview)	2.4	2-7	
Net and Overlapping Debt	2.4	2-9	
Bond Rating	2.4	2-8	
Unemployment Rate	2.4	2-9	
Median Household Income	2.4	2-10	
Property Tax	2.4	2-10	
Alternative Indicators	2.4	2-11	
Use of Secondary Test	2.4	2-11	

Calculation of the Secondary Test Score (Worksheet F in the Guidance)

Description: This worksheet calculates the secondary test score, which characterizes the affected community's current financial and socioeconomic condition. The secondary test score is used in combination with the MPS to evaluate whether or not substantial economic impacts are likely to occur. See the Guidance documentation below for additional information.

Instructions: Verify that the appropriate cell is selected in each row and in the "Score" column to be summed below (highlighted in orange and marked with an asterisk (*)).

la diserte a	Secondary Indicators			Secondary Indicators		Score
Indicator	Weak ^a Mid-Range ^b		Strong ^c	Score		
Bond Rating Worksheet T , (4)	Below BBB (S&P) Below Baa (Moody's)	BBB (S&P) Baa (Moody's)	Above BBB (S&P) * Above Baa (Moody's)	3 *		
Overall Net Debt as Percent of Full Market Value of Taxable Property Worksheet T, (12)	Above 5%	2% - 5%	* Below 2%	2 *		
Overall Net Debt Per Capita ¹ Worksheet T , (12 Alt.)	Greater than \$3,000	\$1,000 - \$3,000	Less than \$1,000	N/A		
Unemployment ² Worksheet T, (5) & (6)	Above National Average	National Average	* Below National Average	2 *		
Median Household Income ³ Worksheet T, (7) & (8)	Below State Median	State Median	* Above State Median	2 *		
Property Tax Revenues as a Percent of Full Market Value of Taxable Property ⁴ Worksheet T, (13)	Above 4%	2% - 4%	* Below 2%	2 *		
Property Tax Collection Rate ⁴ Worksheet T , (9)	< 94%	94% - 98%	> 98% *	3 *		
Average of Financial Management Indicators ⁴ Worksheet T , (13) and (9)				N/A		
	a. Weak is a score of 1 point		SUM	14		
b. Mid-Range is a score of 2 points c. Strong is a score of 3 points AVERAGE		AVERAGE	2.3			

Notes:

⁴ If one of the debt or socioeconomic indicators is not available, the two financial management indicators are averaged and this averaged value is used as a single indicator with the remaining indicators.

Guidance Documentation				
Component Section Page				
Calculating Secondary Test Score	2.4	2-11		
Interpreting Secondary Test Score	2.4	2-11		
Missing Indicators	2.4	2-12		
Determining Need for Widespread Analysis	2.5; Figure 2-1	2-12; 2-14		

¹ If the state has statutory limits on property tax collections and/or rates or data on full-market value of taxable property are not available, "Overall Net Debt as Percent of Full Market Value of Taxable Property" is replaced with "Overall Net Debt Per Capita" and "Property Tax Revenues as a Percent of Full-Market Value of Taxable Property" is dropped.

² If the community's employment rate is equal to the national average unemployment rate, plus or minus 1%, then the community's unemployment rate is assessed as being equal to the national rate.

³ If the community's median household income is equal to the state median, plus or minus 10%, then the community's median household income is assessed as being equal to the state's median household income.

Conclusion for Community

Description: This matrix evaluates the likelihood of substantial economic impacts due to implementation of the pollution control costs. See the Guidance documentation below for additional information.

Instructions: Evaluate the combined results of the MPS and the secondary test by noting which cell in the Substantial Impacts Matrix below is highlighted in orange and marked with an asterisk (*). If the matrix indicates the pollution control project is not likely to impose a substantial economic impact on the community, do not continue to the widespread analysis. If the matrix indicates the pollution control project is likely to impose a substantial economic impact on the community, continue to the widespread analysis. If the matrix indicates the pollution control project may or may not impose a substantial economic impact on the community, continuing to the widespread analysis is optional.

Assessment of Substantial Impacts Matrix (Table 5-2 from the Guidance)				
MPS: Secondary Test Score:	1.1% 2.3			
0 1 7 10	MPS			
Secondary Test Score	Less than 1.0 Percent	Between 1.0 and 2.0 Percent	Greater than 2.0 Percent	
Less than 1.5	?	X	Х	
Between 1.5 and 2.5	✓	? *	Х	
Greater than 2.5	✓	✓	?	

Key:

✓ : Impact is <u>not</u> likely to be substantial
 X : Impact is likely to be substantial

? : Impact is unclear

Guidance Documentation		
Component	Section	Page
Using Substantial Impacts Matrix	2.5	2-12
Determining Need for Widespread Analysis	2.5; Figure 2-1	2-12; 2-14

Qualitative Description of Estimated Change in Socioeconomic Indicators Due to Pollution Control Costs (Worksheet M in the Guidance)

Description: This worksheet indicates whether the substantial economic impacts will also be widespread. The EPA considers substantial economic impacts to be widespread if they will have significant adverse impacts on the local community. See the Guidance documentation below for additional information.

Instructions: Enter information in the **cells marked with an asterisk** (*) to determine if the substantial economic impacts would result in widespread adverse economic impacts to the local community. Because there are no standard economic tests or benchmarks that evaluate socioeconomic impacts for the widespread demonstration, describe the relative changes in indicators such as unemployment, the local economy, household income, tax revenues, indirect effects on other businesses, and sewer fees. This worksheet will help collect and organize the types of information that can be used to determine and demonstrate whether substantial economic impacts will also be widespread.

Estimated change in Median Household Income (MHI)	*
Estimated change in the unemployment rate	*
Estimated change in overall net debt as a percent of full market value of taxable property	*
Estimated change in % of households below the poverty line	*
Impact on commercial development potential	*
Impact on property values	*

Guidance Documentation		
Component	Section	Page
Determination of Widespread Impacts	4	4-1

Defining Relevant Geographic Area	4.1	4-1
Criteria for Evaluating Widespread Impacts	4.2	4-2
Secondary Impacts to Community	4.2	4-3
Multiplier Effect	4.4	4-5
Economic Benefits of Clean Water	4.5; Appendix C	4-6; Appendix C

Calculation of Total Annualized Project Costs (Worksheet B in the Guidance)

Description: This worksheet displays the total annualized project costs. This worksheet is for informational purposes only. No input is required.

A. Capital Costs		
Capital Cost of Project	\$4,224,089,791	
Other One-Time Costs of Project (please list, if any):		
0	\$0	
0	\$0	
0	\$0	
Total Capital Costs (sum column)	\$4,224,089,791	(1)
Portion of Capital Costs to be Paid with Grant Monies	\$0	(2)
Capital Costs to be Financed [(1) - (2)]	\$4,224,089,791	(3)
Type of Financing (e.g., G.O. bond, revenue bond, bank loan)	General Obligation Bond	
Interest Rate for Financing	4.75%	(i)
Time Period of Financing (in years)	32	(n)
Annualization Factor = i/((1+i) ⁿ - 1) + i	0.0614	(4)
Annualized Capital Cost [(3) × (4)]	\$259,398,373	(5)

B. Operating and Maintenance Costs

Annual Costs of Operation and Maintenance (including but not limited to: monitoring, inspection, permitting fees, waste disposal charges, repair, administration and replacement; list below).

0	\$32,835,646	
0	\$0	
0	\$0	
0	\$0	
0	\$0	
Total Annual O & M Costs (sum column)	\$32,835,646	(6)

(7)

C. Total Annual Cost of Pollution Control Project

Total Annual Cost of Pollution Control Project [(5) + (6)] \$292,234,018

Guidance Documentation		
Component	Section	Page
Capital Cost	2.1a	2-3
Financing	2.1.b	2-4
Interest Rate for Financing	2.1.b	2-4
Debt	2.1.b	2-4
Total Annual Cost of Pollution Control	2.1.b	2-5

Operating and Maintenance Costs	2.1.b	2-5

Calculation of Total Annual Pollution Control Costs Per Household (Worksheet C)

Description: This worksheet displays the total annual pollution control costs per household calculated from data entered in other spreadsheets. This worksheet is for informational purposes only. No input is required.

If the option in the tab named "2. MPS Inputs" indicates that households will provide revenues for the pollution control project in the same or different proportion that they support existing pollution control (choice a or b), then the spreadsheet uses **Worksheet C** parts A, B, and C. However, if households pay based on flow (choice c), then the spreadsheet uses **Worksheet C** part A and **Worksheet C**: **Option A**.

A. Current Pollution Control Costs			
Total Annual Cost of Existing Pollution Control	\$1,660,664,499	(1)	
Amount of Existing Costs Paid by Households	\$1,660,664,499	(2)	
Percent of Existing Costs Paid by Households	100.00%	(3)	
Number of Households *	3,128,246	(4)	
Annual Cost Per Household [(2)/(4)]	\$530.86	(5)	
* Do not use number of hook-ups.			

B. Ne	B. New Pollution Control Costs				
	Will households provide revenues for the new pollution control project in the same proportion that they support existing pollution control?				
х	X a) Yes [fill in percent from (3)] 100.00% (6a)				
	b) No, they will pay	100.00%	(6b)		
	c) No, they will pay based on flow. (Continue on Calculation of Total Annual Pollution Control Costs Per Household Based on Flow.)				
	Total Annual Cost of Pollution Control Project [Line (7), Worksheet B] \$292,234,018 (7)				
Р	Proportion of Costs Paid by Households [(6a) or (6b)] 1.00 (8)				
А	Amount to be Paid by Households $[(7) \times (8)]$ \$292,234,018 (9)				
Α	Annual Cost per Household [(9)/(4)] \$93.42				

C. Total Annual Pollution Control Cost per Household		
Total Annual Cost of Pollution Control Project per Household [(5) + (10)]	\$624.28	(11)

Calculation of Total Annual Pollution Control Costs Per Household Based on Flow (Worksheet Q: Option A)			
A. Calculating Project Costs Incurred by Households Based on Flow			
Total Usage of Project (e.g., MGD for wastewater treatment)	0.0	(1)	
Usage Due to Household Use (MGD of household wastewater)	0.0	(2)	
Percent of Usage Due to Household Use [(2)/(1)]	0.00%	(3)	
Total Annual Cost of Pollution Control Project	\$292,234,018	(4)	
Industrial Surcharges, if any	\$0	(5)	
Costs to be Allocated [(4) - (5)]	\$292,234,018	(6)	
Amount to be Paid by Households [(3) × (6)]	\$0	(7)	
Annual Project Cost per Household [(7) / Worksheet C, (4)]	\$0.00	(8)	

C. Total Annual Pollution Control Cost per Household		
Annual Existing Costs per Household [Worksheet C, (5)]	\$530.86	(9)
Total Annual Cost of Pollution Control per Household [(8) + (9)]	\$530.86	(10)

Guidance Documentation			
Component	Section	Page	
Defining Affected Community	2.2	2-5	
Adjusting Prior Year's Estimates	2.2	2-5	
Impact of Cost Distribution in Community	2.2	2-6	
Approaches to Calculating Current Costs	2.2	2-6	
Total Annual Cost of Pollution Control Project	2.1.a	2-3	
Industrial Surcharges	2.2	2-6	

Potential Data Sources for Secondary Test Inputs

Description: This worksheet provides potential sources for the socioeconomic data required to perform the calculations in this spreadsheet. This worksheet is for informational purposes only. No input is required.

Potential Data Source	
Community Financial Statements	
Community Financial Statements	
Community Financial Statements. If community-specific information cannot be found, median property values by state can be found through American Community Survey Reports:	
http://www.census.gov/prod/2009pubs/acsbr08-6.pdf	
Combine data with the number of properties in the community.	
Standard and Poor's or Moody's	
U.S. Department of Labor, Bureau of Labor Statistics: Local Area Unemployment Statistics: http://www.bls.gov/lau/#tables	
U.S. Department of Labor, Bureau of Labor Statistics: Labor Force Statistics from the Current Population Survey: http://data.bls.gov/timeseries/LNS14000000	
U.S. Census Bureau: State & County QuickFacts (select state, then county or city within state): http://quickfacts.census.gov/qfd/index.html	
U.S. Census Bureau: State Median Income: http://www.census.gov/hhes/www/income/data/statemedian/	
Community Financial Statements. If community-specific information cannot be found, statewide data can be found at the U.S. Census Bureau's Quarterly Summary of State & Local Taxes: http://www.census.gov/govs/qtax/	
Community Financial Statements. If community-specific information cannot be found, statewide data can be found at the U.S. Census Bureau's Quarterly Summary of State & Local Taxes: http://www.census.gov/govs/qtax/ Scale according to size of community relative to state.	

Example Data Sources for Secondary Test Inputs

Description: This worksheet provides two specific examples of where socioeconomic data required to perform the calculations in this spreadsheet may be obtained for two communities. This worksheet is for informational purposes only. No input is required.

Indicator	Example Data Sources for Fairfax County, Virginia	Example Data Sources for Brookings County, South Dakota
	Fairfax County's 2011 Comprehensive Annual Financial Report (CAFR) is available from the county's Finance website:	The Community Financial Statement is not available online; however the financial statements were audited in 2010 for the year ending in December 2009, and the audit report is available online:
Direct Net Debt	http://www.fairfaxcounty.gov/finance/cafr.htm	http://legislativeaudit.sd.gov/Reports/County/Brookings%20County%2 02009.pdf
	It provides detailed financial information for the county's primary government, including debt (page 20).	As such, the 2009 financial data, including debt, from 2009 can be used.
	Fairfax County's 2011 Comprehensive Annual Financial Report (CAFR) is available from the county's Finance website:	The Community Financial Statement is not available online; however the financial statements were audited in 2010 for the year ending in December 2009, and the audit report is available online:
Overlapping Debt	http://www.fairfaxcounty.gov/finance/cafr.htm	http://legislativeaudit.sd.gov/Reports/County/Brookings%20County%2 02009.pdf
	It provides detailed financial information for "component units" such as public schools, park authorities, and others which may be counted as overlapping entities (page 21).	This includes financial data on component units. As such, the 2009 financial data, including debt, from 2009 can be used.
	Fairfax County's 2011 Comprehensive Annual Financial Report (CAFR) is available from the county's Finance website:	The Community Financial Statement is not available online; however, the state of South Dakota provides a recapitulation of property tax statistical information, and Brookings County has links to those documents available on its property tax website:
Market Value of Property	http://www.fairfaxcounty.gov/finance/cafr.htm	http://www.state.sd.us/drr2/propspectax/property/publications.htm
	It provides detailed financial information for the county, including an additional statistical section which shows the assessed value of all taxable and nontaxable property in the county (page 246).	(page 60 contains the relevant information on the market value of property, as well as the property tax collection).
	Fairfax County's 2011 Comprehensive Annual Financial Report (CAFR) is available from the county's Finance website:	Standard and Poor's:
Bond Rating	http://www.fairfaxcounty.gov/finance/cafr.htm	http://www.standardandpoors.com/ratings/en/us/
	provides the county's credits cores from both Standard and Poor's and Moody's (page XVII).	Allows a search of government entities (by state under "Public Finance U.S.) to registered users (at no cost) and provides a summary of credit issuances and their associated ratings.
	The American Factfinder:	The American Factfinder:
	http://factfinder2.census.gov/faces/nav/jsf/pages/index.xhtml	http://factfinder2.census.gov/faces/nav/jsf/pages/index.xhtml

Community Unemployment Rate	Allows the user to find specific census data sets. To identify the community unemployment rate for Fairfax County, select the topic "People:Income/Earnings (Households)"; narrow the geography to Fairfax County, Virginia; and within the Search results, search for: DP03: Selected Economic Characteristics.	Allows the user to find specific census data sets. To identify the community unemployment rate for Brookings County, select the topic "People:Income/Earnings (Households)"; narrow the geography to Brookings County, South Dakota; and within the Search results, search for: DP03: Selected Economic Characteristics.	
National Unemployment Rate	The Bureau of Labor Statistics provides national unemployment rate: http://data.bls.gov/timeseries/LNS14000000 The Bureau of Labor Statistics provides national unemployment rate: http://data.bls.gov/timeseries/LNS14000000		
Community Median Household Income	The American Factfinder: http://factfinder2.census.gov/faces/nav/jsf/pages/index.xhtml Allows the user to find specific census data sets. To identify the community median household income for Fairfax County, select the topic "People:Income/Earnings (Households)"; narrow the geography to Fairfax County, Virginia; and within the Search results, search for: DP03: Selected Economic Characteristics.	The American Factfinder: http://factfinder2.census.gov/faces/nav/jsf/pages/index.xhtml Allows the user to find specific census data sets. To identify the community median household income for Brookings County, select the topic "People:Income/Earnings (Households)"; narrow the geography to Brookings County, South Dakota; and within the Search results, search for: DP03: Selected Economic Characteristics.	
State Median Household Income	The American Factfinder: http://factfinder2.census.gov/faces/nav/jsf/pages/index.xhtml Allows the user to find specific census data sets. To identify the community median household income for Virginia, select the topic "People:Income/Earnings (Households)"; narrow the geography to Virginia; and within the Search results, search for: DP03: Selected Economic Characteristics.	The American Factfinder: http://factfinder2.census.gov/faces/nav/jsf/pages/index.xhtml Allows the user to find specific census data sets. To identify the community median household income for South Dakota, select the topic "People:Income/Earnings (Households)"; narrow the geography to South Dakota; and within the Search results, search for: DP03: Selected Economic Characteristics.	
Property Tax Collection Rate	Fairfax County's 2011 Comprehensive Annual Financial Report (CAFR) is available from the county's Finance website: http://www.fairfaxcounty.gov/finance/cafr.htm and provides the county's property tax collection rate on page 247.	The Community Financial Statement is not available online; however the state of South Dakota provides a recapitulation of property tax statistical information, and Brookings County has links to those documents available on its property tax website: http://www.state.sd.us/drr2/propspectax/property/publications.htm (page 60 contains the relevant information on the market value of property, as well as the property tax collection).	
Property Tax Revenues	Fairfax County's 2011 Comprehensive Annual Financial Report (CAFR) available from the county's Finance website: http://www.fairfaxcounty.gov/finance/cafr.htm and provides the county's property tax revenue data (page 8).	The Community Financial Statement is not available online; however the state of South Dakota provides a recapitulation of property tax statistical information, and Brookings County has links to those documents available on its property tax website: http://www.state.sd.us/drr2/propspectax/property/publications.htm (page 60 contains the relevant information on the market value of property, as well as the property tax collection).	

Changelog

Description: This worksheet describes bug fixes and other modifications that have been made since the original spreadsheet was posted to the EPA web site.

June 2013

On "2. MPS Inputs" and "4. Secondary Test Input" tabs, made minor formatting changes for consistency (bold outline for instruction boxes, and number format in cells F32 and F33)

On "5. Secondary Test Score" and "7. Widespread Impact Analysis," corrected minor formatting issues (cell borders)

Unlocked cell B17 (description of missing data) in "4. Secondary Test Inputs"

Fixed minor formatting issues for printer compatibility on several tabs

Fixed two typos in cells B20 and B21 in "Purpose and Instructions"

July 2015

Changed calculation of average in "5. Secondary Test Score" to reflect replacement of two financial management indicators with a single average financial management indicator when one debt or socioeconomic indicator is unavailable.